

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (Currently Amended) A method of heating in a vacuum atmosphere in the presence of a plasma, said method comprising the following steps:

- a) providing infrared radiation means in a vacuum chamber;
- b) providing a first electrical conductor to said infrared radiation means;
- c) providing a second electrical conductor from said infrared radiation means;
- d) ~~applying putting~~ an electrical voltage across ~~over~~ said infrared radiation means; and
- e) preventing said first conductor and said second conductor from having an electrical voltage above +55 Volt.

2. (Original) A method according to claim 1, wherein said first conductor and said second conductor are prevented from having a positive electrical voltage.

3. (Original) A method according to claim 1, wherein said first conductor or said second conductor are kept electrically negative.

4. (Original) A method according to claim 1, wherein said first conductor and said second conductor are kept electrically negative.

5. (Currently Amended) A method according to claim 1, wherein said method further comprises the step of providing a first feed-through through which said first conductor enters said vacuum chamber.

6. (Currently Amended) A method according to claim 1, wherein said method further comprises the step of providing a second feed-through through which said second conductor enters said vacuum chamber.

7. (Currently Amended) A method according to claim 1, wherein said vacuum chamber has walls, said method further comprises ~~comprising~~ the step of electrically grounding said walls and said second conductor.

8. (Currently Amended) A method according to claim 1, wherein said method further comprises ~~comprising~~ the step of electrically isolating said first and second conductors.

9. (Currently Amended) A method according to claim 8, wherein said method further comprises ~~comprising~~ the step of electrically double isolating said first and second conductors.

10. (Currently Amended) A method according to claim 9, wherein said method further comprises the step of wrapping a metal shield around said first conductor and said second conductor and connecting said shield to ~~earth~~ ground.

11. (Canceled).

12. (Currently Amended) A method of avoiding arcing in a vacuum atmosphere in the presence of a plasma, said method comprising the following steps:

- a) providing a vacuum chamber;
- b) providing a plasma;
- c) providing an electrical power to or from a device in the ~~a~~-vacuum chamber;
- d) providing a first electrical conductor to said device;
- e) providing a second electrical conductor from said device; and
- f) preventing said first and second electrical conductors ~~conductor~~ from being loaded above +55 Volt so that electrons are not attracted in mass,

wherein said first conductor and said second conductor are prevented from having a positive electrical voltage.

13. (Currently Amended) A method of increasing heating power when heating in a vacuum atmosphere in the presence of a plasma, said method comprising the following steps:

- a) providing infrared radiation means in a vacuum chamber;
- b) providing a first electrical conductor to said infrared radiation means;

- c) providing a second electrical conductor from said infrared radiation means;
- d) applying ~~putting~~ an electrical voltage across ~~over~~ said infrared radiation means;
- e) keeping said conductors negatively loaded; and
- f) increasing the electrical voltage above 65 Volt.

14. (New) A method of heating in a vacuum atmosphere in the presence of a plasma, said method comprising the following steps:

- a) providing an infrared radiation emitter in a vacuum chamber;
- b) providing a first electrical conductor to said infrared radiation emitter;
- c) providing a second electrical conductor from said infrared radiation emitter;
- d) applying an electrical voltage across said infrared radiation emitter; and
- e) preventing said first conductor and said second conductor from having an electrical voltage above +55 Volt.

15. (New) A method according to claim 14, wherein said first conductor and said second conductor are prevented from having a positive electrical voltage.

16. (New) A method according to claim 14, wherein said method further comprises the steps of providing a first feed-through through which said first conductor enters said vacuum chamber and of providing a second feed-through through which said second conductor enters said vacuum chamber.

17. (New) A method according to claim 14, wherein said method further comprises the step of electrically isolating said first and second conductors.